PARAMETER TITLE: D-Value for Bioburden on Mated Surfaces (D_{M125})

VALUE					
UPPER	1.0 hr.				
ACCEPTABLE	1.0 hr.				
LOWER	1.0 hr.				

APPLICATION					
MISSION	All				
CATEGORY	IV				
PLANET	All				

PARAMETER DEFINITION:	Time requir	ed to	destroy	90% of	the	mic	robial	spore	population

on mated surfaces of spacecraft subjected to sterilizing dry heat at a temperature of 125°C at an absolute humidity corresponding to a relative humidity of less than 25% referenced to the standard conditions of 0°C and 760 torr

pressure.

APPLICABLE SOURCE: All spore populations on mated surfaces of spacecraft.

CONSTRAINTS: Specified D-value can be applied where sterilization cycle conditions

stated in NPG 8020.12B have been met. Thermal response of materials must be considered in design of sterilization cycles. Project must specify method for the measurement of these parameters and make allowances

for stabilization times.

REFERENCES:	Recommendations of PQ Deliberations on July 25-2	AP Subcommittee 1A Resulting from 26, 1968.
Planetary Protection	on Officer	Date